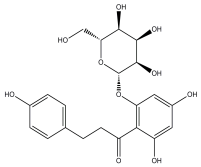
PRODUCT: Phlorizin

ALTERNATE NAME: 1-[2-(β-D-glucopyranosyloxy)-4,6-dihydroxyphenyl]-3-(4-hydroxyphenyl)-1-propanone; NSC 2833; Florizidin

CATALOG #: 2416-100, 500

AMOUNT: 100 mg, 500 mg

STRUCTURE:



MOLECULAR FORMULA: $C_{21}H_{24}O_{10}$

MOLECULAR WEIGHT: 436.41

CAS NUMBER: 60-81-1

APPEARANCE: White to yellow solid

SOLUBILITY: DMSO (~30 mg/ml) or EtOH (~ 5 mg/ml)

PURITY: ≥98%

STORAGE: At -20° C. Protect from light and air

DESCRIPTION: Phlorizin is a competitive inhibitor of SGLT1 (sodium glucose co-transporter 1) and SGLT2 (sodium glucose co-transporter 2); this reduces renal glucose transport, lowering the amount of glucose in the blood. It competitively inhibits the initial rate of α-methyl-D-glucopyranoside (α-MDG) uptake in human COS-1 cells expressing hSGLT1 and hSGLT2 with IC_{50} values of 400 and 65 nM, respectively. In HEK293T cells expressing human SGLT1 and SGLT2, phlorizin exhibits K_i values of 140 and 11 nM, respectively, at 37°C.

REFERENCE: Chao, E.C. *et al.* (2010). *Nat. Rev. Drug. Discov.* **9,** 551-559.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Dipeptidylpeptidase IV, Human Plasma **(Cat. No. 4709-10)**
Dipeptidylpeptidase IV, Human Recombinant **(Cat. No. 4710-10, 50, 1000)**
Dipeptidylpeptidase IV Inhibitor, K 579 **(Cat. No. 1963-1, 5)**
Dipeptidylpeptidase IV Inhibitor, NVP DPP 728 **(Cat. No. 1964-1, 5)**
Diprotin A **(Cat. No. 2191-5, 25)**
Diprotin B **(Cat. No. 2192-5, 25)**
DPP4 Activity Assay Kit **(Cat. No. K779-100)**
DPP4 Inhibitor Screening Kit **(Cat. No. K780-100)**
Linagliptin **(Cat. No. 2240-50, 250)**
Sitagliptin Phosphate Monohydrate **(Cat. No. 1757-100, 1G)**
Vlidagliptin **(Cat. No. 2188-10, 50)**

USAGE: ***FOR RESEARCH CH USE ONLY! Not to be used in humans***

BioVision Incorporated
155 S. Milpitas Boulevard, Milpitas, CA 95035 USA

Tel: 408-493-1800 | Fax: 408-493-1801
www.biovision.com | tech@biovision.com